Pest Biology and Management
Break Out Session

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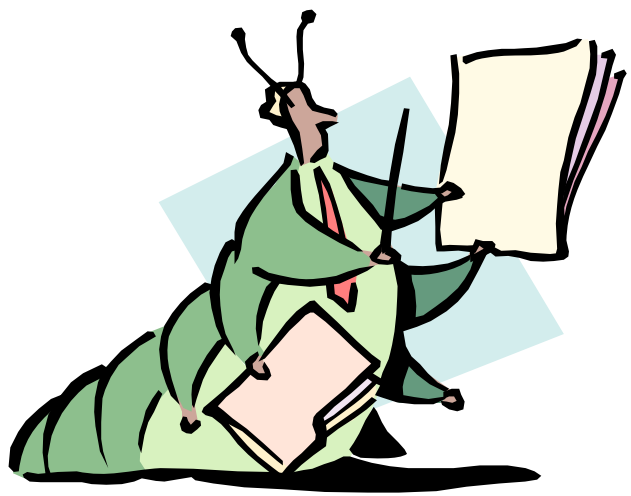
Arthropod and Nematode Biology and Management Program Area:

10 Year Goals

- Biotic and abiotic factors affecting establishment and spread of species
- Framework for environmentally sound pest control

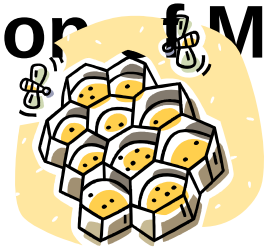


Significant Changes

Organization of programs in RFA :

One overall program area –"Arthropod and Nematode Biology and Management"
$**12.9 M**
Program elements:

51.2A Organismal and Population Biology
51.2B Suborganismal Biology
51.2C Tools, Resources and Genomics
NEW CAP:
51.2D Protection of Managed Bees



Important Deadlines

- **51.2A Organismal and Population Biology and**
- **51.2D CAP: Protection of Managed Bees**
- **1 Panel reviews both sections**

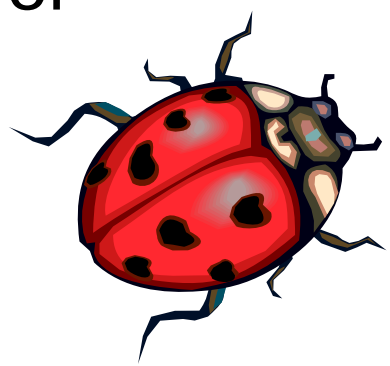
- **Letter of Intent November 26, 2007**
- **Proposal Deadline Feb 14, 2008**

Program Element 1:

51.2 A Organismal and Population Biology of Arthropods and Nematodes

Priorities

- Mechanisms affecting abundance of pests and beneficial species
- Organismal and population-level studies
- Ecological interactions with diseases or disorders



Program Element 4: Protection of Managed Bees CAP

- Priority--Improve the health of managed bee populations in agricultural systems
- Integrated Program—must include combination of research with either extension or educational objective(s)
- $1 million per year, 4 Million total for 4 years
- Multidisciplinary and/or multi-institutional
- Indirect costs

Funding Statistics

2006 panel: Organismal and Population Biology of A&N

No. proposals submitted: 94

No. awarded: 20

Percent success: 22% (standard)

Average **standard** award size: $343,364

Duration (years): 2-4 years

Budget: $5.8 Million

Program Element 2:
51.2 B Suborganismal Biology

Priorities

- Characterization at cellular, molecular level of biological processes
- Interactions with associated agriculturally relevant organisms (e.g., plants, animals, microbes)
- Mechanism of action of control tactics

Funding Statistics

2006 panel: Suborganismal Biology of A&N

No. proposals submitted: 66

No. awarded: 13

Percent success: 16% (standard)

Average **standard** award size: $354,500

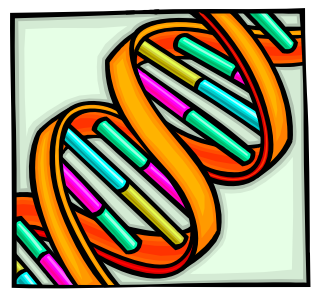
Duration (years): 2-4 years

Budget: $3.6 Million

Program Element 3:
51.2 C Tools, Resources, Genomics

Priorities

- Mapping, identification, sequencing, and/or expression of genes
- Generate bioinformatic tools to manage and interpret sequence data
- Characterize the function(s) of genes or networks of genes.



Funding Statistics
2006 panel: Genomics of A&N

No. proposals submitted: 25

No. awarded: 6

Percent success: 21% (standard)

Average standard award size: $441,000

Duration (years): 2-4 years

Budget: $3.1 Million